

What is claimed is:

1. (Amended) A liquid crystal display device, comprising:
  - a liquid crystal display panel having, a pair of substrates arranged to oppose each other, a liquid crystal layer interposed between the pair of substrates, a plurality of pixels being formed along the liquid crystal layer;
  - a plurality of driving circuits for supplying signals to the pixels and being juxtaposed along one of edges of the liquid crystal display panel, the plurality of driving circuits being arranged adjacent one another and divided into a plurality of driving circuits groups having plural driving circuits along the one of the edges of the liquid crystal panel;
  - a printed circuit board having a control circuit mounted thereon which controls the plurality of driving circuits; and
  - a plurality of [flexible] wiring boards being juxtaposed along a direction in which the plurality of driving circuits are juxtaposed, a respective one of the plurality of [flexible] wiring boards being provided for a respective one of the plurality of driving circuits groups, each of the plurality of [flexible] wiring boards having a connecting portion to be connected to the printed circuit board, the connecting portion comprising a flexible wiring board, each of the plurality of wiring boards having [and] protruded portions provided in correspondence with respective driving

circuits of a respective driving circuits group, the protruded portions being spaced from one another, [and] protruding toward the one of the edges of the liquid crystal display panel and comprising a flexible wiring board, [having respective ends mounted on one of the pair of substrates at the one of the edges of the liquid crystal display panel], wherein

each of the plurality of [flexible] wiring boards receives a control signal from the control circuit through the connecting portion thereof and inputs the control signal sequentially to respective input sides of the respective driving circuits of the respective one of the driving circuit groups corresponding thereto, and each of the protruded portions thereof having at least one signal path thereof inputting the control signal to the input side of the driving circuits of the respective one of the driving circuits groups.

2. A liquid crystal display device according to claim 1, wherein the plurality of driving circuits are ICs.

3. (Amended) A liquid crystal display device according to claim 1, wherein the control signal is an enable signal sent from the control circuit to the plurality of driving circuits successively along the one of the edges of the liquid crystal panel through each of the plurality of [flexible] wiring boards and controls video signal acquisition by the respective driving circuits performed sequentially along the one of the edges of the liquid crystal panel.

4. (Amended) A liquid crystal display device according to claim 1, wherein the printed circuit board is constructed to sequentially supply the control signal from said control circuit between said [flexible] wiring boards which are arranged adjacent to one another.

5. (Amended) A liquid crystal display device according to claim 1, wherein a pair of the connecting terminals of a pair of the plurality of [flexible] wiring boards are arranged at respective sides of the pair of the plurality of [flexible] wiring boards which are adjacent to one another.

6. (Amended) A liquid crystal display device according to claim 5, wherein the control circuit confronts a region between the pair of the connecting terminals of the pair of the plurality of [flexible] wiring boards.

7. (Amended) A liquid crystal display device according to claim 1, wherein the control signal being supplied to the driving circuits corresponding to the one of the plurality of [flexible] wiring boards is a starting signal, and controls video signal acquisition of each of the driving circuits corresponding thereto sequentially along the one of the edges of the liquid crystal display panel as transferred between the respective driving circuits corresponding thereto.

8. (Amended) A liquid crystal display device according to claim 1, wherein at least one of the plurality of [flexible] wiring boards has another

connecting portion outputting the control signal outputted from one of the driving circuits corresponding thereto.

9. A liquid crystal display device according to claim 1, wherein each of the plurality of the pixels has a switching element, and the plurality of driving circuits are mounted on the one of the pair of substrates over which a plurality of video signal lines being connected to at least one of the switching elements are formed.

10. A liquid crystal display device according to claim 9, wherein the plurality of video signal lines are divided into groups in accordance with the driving circuits groups, and each of the groups includes a plurality of video signal lines adjacent to each other.

11. (Amended) A liquid crystal display device, comprising:

a liquid crystal display panel having, a pair of substrates

arranged to oppose each other, a liquid crystal layer

interposed between the pair of substrates, a plurality of

pixels being formed along the liquid crystal layer;

a plurality of driving circuits for supplying signals to the pixels

and being juxtaposed along one of edges of the liquid

crystal display panel, the plurality of driving circuits being

arranged adjacent one another and divided into a plurality

of driving circuits groups having plural driving circuits

along the one of the edges of the liquid crystal panel;

a printed circuit board having a control circuit mounted thereon  
which controls the plurality of driving circuits; and  
a [flexible] wiring board, which is arranged to extend along a  
direction in which the plurality of driving circuits are  
juxtaposed, consisting of a plurality of sections thereof  
provided in correspondence with the driving circuits  
groups and arranged in an extension direction thereof,  
each of the sections having a connecting portion to be  
connected to the printed circuit board, and having  
protruded portions thereof protruded toward the one of  
the edges of the liquid crystal display panel in  
correspondence with the respective driving circuits  
belonging to the one of the driving circuit groups [and  
having respective ends mounted on one of the pair of  
substrates at the one of the edges of the liquid crystal  
display panel], the protruded portions being spaced from  
each other at the ends thereof, and each of the  
connecting portion and the protruded portions comprising  
a flexible wiring board, wherein  
a [flexible] wiring board receives a control signal from the control  
circuit through one of the connecting portions of the  
sections thereof,  
each of the protruded portions corresponds to one of the driving  
circuits has at least one signal path for the control signal  
to be [connected] inputted to an input side of the driving

circuit corresponding thereto,  
each region of the [flexible] wiring board between each pair of  
the sections which are adjacent to one another along the  
extension direction thereof is narrower than the rest  
thereof, and  
the control signal is inputted to each of the plurality of driving  
circuits sequentially along the one of the edges of the  
liquid crystal display panel and is transferred through  
each region between the sections of the [flexible] wiring  
board.

12. (Amended) A liquid crystal display device according to claim 11,  
wherein the [flexible] wiring board has multi-layered regions in the respective  
section thereof where a plurality of the conductive layers are stacked on each  
other, and the protruded portions and the each region between the sections  
are thinner than the multi-layered regions.

13. (Amended) A liquid crystal display device according to claim 1,  
wherein the [flexible] wiring board has a multi-layered region where a plurality  
of the conductive layers being stacked on each other, and the protruded  
portions thereof are thinner than the multi-layered regions.

14. (Amended) A liquid crystal display device according to claim 1,  
wherein the plurality of [flexible] wiring boards consists of a pair of [flexible]  
wiring boards extended and juxtaposed along the one of the edges of the

liquid crystal display panel.

15. (Amended) A liquid crystal display device according to claim 11, wherein the [flexible] wiring board comprises a plurality of [flexible] wiring boards juxtaposed along the one of the edges of the liquid crystal display panel for the respective section thereof, and a pair of the plurality of [flexible] wiring boards adjacent to one another are connected by a joint member provided at the region therebetween.

16. (Amended) A liquid crystal display device according to claim 11, wherein the plurality of driving circuits are divided into a pair of driving circuits groups each including a plurality of driving circuits adjacent to each other along the one of the edges of the liquid crystal display panel, and the [flexible] wiring board consists of a pair of the sections thereof provided in correspondence with the pair of driving circuits groups, respectively.

17. (new) A liquid crystal display device, comprising:  
a liquid crystal display panel having, a pair of substrates arranged to  
oppose each other, a liquid crystal layer interposed between the pair of  
substrates, a plurality of pixels being formed along the liquid crystal layer;  
a plurality of driving circuits for supplying signals to the pixels and  
being juxtaposed along one of edges of the liquid crystal display panel, the  
plurality of driving circuits being arranged adjacent one another and divided  
into a plurality of driving circuits groups having plural driving circuits along the  
one of the edges of the liquid crystal panel;

a printed circuit board having a control circuit mounted thereon which controls the plurality of driving circuits; and

a plurality of wiring boards being juxtaposed along a direction in which the plurality of driving circuits are juxtaposed, a respective one of the plurality of wiring boards being provided for a respective one of the plurality of driving circuits groups, each of the plurality of wiring boards having a connecting portion to be connected to the printed circuit board and protruded portions provided in correspondence with respective driving circuits of a respective driving circuits group, the protruded portions being spaced from one another protruding toward the one of the edges of the liquid crystal display panel;

wherein at least one of the connecting portion and the protruded portions of each of the plurality of wiring boards is flexible in relation to at least one other portion of the plurality of wiring boards; and

wherein each of the plurality of wiring boards receives a control signal from the control circuit through the connecting portion thereof and inputs the control signal sequentially to respective input sides of the respective driving circuits of the respective one of the driving circuit groups corresponding thereto, and each of the protruded portions thereof having at least one signal path thereof inputting the control signal to the input side of the driving circuits of the respective one of the driving circuits groups.

18. (new) A liquid crystal display device according to claim 17, wherein each of the plurality of wiring boards is formed of a multi-layered structure and the at least one of the connecting portion and the protruded portions is formed with a smaller number of layers than the at least one other



portion of the plurality of wiring boards.

19. (new) A liquid crystal display device according to claim 17,  
wherein at least the protruded portions of the plurality of wiring boards is  
flexible in relation to at least one other portion of the plurality of wiring boards.

20. (new) A liquid crystal display device according to claim 17,  
wherein each of the plurality of wiring boards is formed of a multi-layered  
structure and at least the protruded portions is formed with a smaller number  
of layers than the at least one other portion of the plurality of wiring boards.

21. (new) A liquid crystal display device, comprising:  
a liquid crystal display panel having, a pair of substrates arranged to  
oppose each other, a liquid crystal layer interposed between the pair of  
substrates, a plurality of pixels being formed along the liquid crystal layer;  
a plurality of driving circuits for supplying signals to the pixels and  
being juxtaposed along one of edges of the liquid crystal display panel,  
the plurality of driving circuits being arranged adjacent one another and  
divided into a plurality of driving circuits groups having plural driving circuits  
along the one of the edges of the liquid crystal panel;  
a printed circuit board having a control circuit mounted thereon which  
controls the plurality of driving circuits; and  
a plurality of wiring boards being juxtaposed along a direction in which  
the plurality of driving circuits are juxtaposed, a respective one of the plurality  
of wiring boards being provided for a respective one of the plurality of driving

circuits groups, each of the plurality of wiring boards having a connecting portion to be connected to the printed circuit board, the respective connecting portions being arranged adjacently to each other along the longitudinal direction of the wiring boards thereof, each of the plurality of wiring boards having protruded portions provided in correspondence with respective driving circuits of a respective driving circuits group, the protruded portions being spaced from one another and protruding toward the one of the edges of the liquid crystal display panel,

wherein each of the plurality of wiring boards receives a control signal from the control circuit through the connecting portion thereof and inputs the control signal sequentially to respective input sides of the respective driving circuits of the respective one of the driving circuit groups corresponding thereto, and each of the protruded portions thereof having at least one signal path thereof inputting the control signal to the input side of the driving circuits of the respective one of the driving circuits groups.

22. (new) A liquid crystal display device according to claim 21, wherein the plurality of driving circuits are ICs.

23. (new ) A liquid crystal display device according to claim 21, wherein the control signal is an enable signal sent from the control circuit to the plurality of driving circuits successively along the one of the edges of the liquid crystal panel through each of the plurality of wiring boards and controls video signal acquisition by the respective driving circuits performed sequentially along the one of the edges of the liquid crystal panel.

24. (new) A liquid crystal display device according to claim 21, wherein the printed circuit board is constructed to sequentially supply the control signal from said control circuit between said wiring boards which are arranged adjacent to one another.

25. (new) A liquid crystal display device according to claim 21, wherein a pair of the connecting terminals of a pair of the plurality of wiring boards are arranged at respective sides of the pair of the plurality of wiring boards which are adjacent to one another.

26. (new) A liquid crystal display device according to claim 25, wherein the control circuit confronts a region between the pair of the connecting terminals of the pair of the plurality of wiring boards.

27. (new) A liquid crystal display device according to claim 21, wherein the control signal being supplied to the driving circuits corresponding to the one of the plurality of wiring boards is a starting signal, and controls video signal acquisition of each of the driving circuits corresponding thereto sequentially along the one of the edges of the liquid crystal display panel as transferred between the respective driving circuits corresponding thereto.

28. (new) A liquid crystal display device according to claim 21, wherein at least one of the plurality of wiring boards has another connecting portion outputting the control signal outputted from one of the driving circuits

corresponding thereto.

29. (new) A liquid crystal display device according to claim 21, wherein each of the plurality of the pixels has a switching element, and the plurality of driving circuits are mounted on the one of the pair of substrates over which a plurality of video signal lines being connected to at least one of the switching elements are formed.

30. (new) A liquid crystal display device according to claim 29, wherein the plurality of video signal lines are divided into groups in accordance with the driving circuits groups, and each of the groups includes a plurality of video signal lines adjacent to each other.

31. (new) A liquid crystal display device according to claim 21, wherein the wiring board has a multi-layered region wherein a plurality of the conductive layers being stacked on each other, and the protruded portions thereof are thinner than the multi-layered regions.

32. (new) A liquid crystal display device according to claim 21, wherein the plurality of wiring boards consists of a pair of wiring boards extended and juxtaposed along the one of the edges of the liquid crystal display panel.